

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
December 2001

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The Resources Agency
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The organization shown above represents staff and positions relevant to this report as of publication date on June 28, 2002. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of December 2001.

Statewide precipitation was 125 percent of average for the 2001-2002 water year as of December 31. Statewide runoff was 105 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: http://cdec.water.ca.gov/snow_rain.html.

On December 31, total storage in major SWP reservoirs was about 2.91 MAF, compared with about 2.84 MAF at this time in 2000. The average storage in the major SWP reservoirs at the end of December was about 3.52 MAF. The December 31 storage at Lake Oroville was about 1.6 MAF as compared to 1.72 MAF last year. The State's share of San Luis Reservoir storage was about 676 TAF, as compared with 482 TAF at this time last year. On December 31, the combined storage in our southern reservoirs was about 635 TAF, compared with about 636 TAF at this time last year.

Through December, SWP water deliveries for 2001 were about 2,152 TAF. This is a combination of project, transfer, and exchange waters. This is 1,312 TAF less than delivered during the same period in 2000.

Early wet weather and more than adequate flows quickly alleviated water quality concerns. The Delta Cross Channel gates were closed on December 4.

Hyatt/Thermalito Complex generation was curtailed to maintain Feather River Fish Hatchery temperatures.

Excess conditions in the Delta were declared on December 6.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Nov 30	4991.63	14,089								
1	4991.69	14,132	43	5	0	0	0			
2	4991.82	14,224	92	5	0	0	0			
3	4991.84	14,238	14	5	0	0	0			
4	4991.85	14,245	7	5	0	0	0			
5	4991.86	14,252	7	5	0	0	0			
6	4991.87	14,259	7	5	0	0	0			
7	4991.88	14,266	7	5	0	0	0			
8	4991.89	14,273	7	5	0	0	0			
9	4991.88	14,266	-7	5	0	0	0			
10	4991.87	14,259	-7	5	0	0	0			
11	4991.87	14,259	0	5	0	0	0			
12	4991.87	14,259	0	5	0	0	0			
13	4991.96	14,323	64	5	0	0	0			
14	4991.97	14,330	7	5	0	0	0			
15	4991.97	14,330	0	5	0	0	0			
16	4991.99	14,344	14	5	0	0	0			
17	4992.03	14,373	29	5	0	0	0			
18	4992.04	14,380	7	5	0	0	0			
19	4992.06	14,394	14	5	0	0	0			
20	4992.08	14,408	14	5	0	0	0			
21	4992.08	14,408	0	5	0	0	0			
22	4992.10	14,423	15	5	0	0	0			
23	4992.10	14,423	0	5	0	0	0			
24	4992.11	14,430	7	5	0	0	0			
25	4992.11	14,430	0	5	0	0	0			
26	4992.11	14,430	0	5	0	0	0			
27	4992.13	14,444	14	5	0	0	0			
28	4992.18	14,480	36	5	0	0	0			
29	4992.21	14,501	21	5	0	0	0			
30	4992.27	14,544	43	5	0	0	0			
31	4992.34	14,594	50	5	0	0	0			
Total cfs-days			---	155	0	0	0	39	194	
Total ac-ft			505	307	0	0	0	78	385	
									890	

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Nov 30	5567.47	28,654								
1	5567.44	28,623	-31	2	0	0	0			
2	5567.66	28,853	230	2	0	0	0			
3	5567.66	28,853	0	2	0	0	0			
4	5567.69	28,884	31	2	0	0	0			
5	5567.71	28,905	21	2	0	0	0			
6	5567.70	28,895	-10	2	0	0	0			
7	5567.71	28,905	10	2	0	0	0			
8	5567.68	28,874	-31	2	0	0	0			
9	5567.71	28,905	31	2	0	0	0			
10	5567.73	28,926	21	2	0	0	0			
11	5567.68	28,874	-52	2	0	0	0			
12	5567.69	28,884	10	2	0	0	0			
13	5567.76	28,958	74	2	0	0	0			
14	5567.77	28,968	10	2	0	0	0			
15	5567.82	29,021	53	2	0	0	0			
16	5567.78	28,979	-42	2	0	0	0			
17	5567.83	29,032	53	2	0	0	0			
18	5567.82	29,021	-11	2	0	0	0			
19	5567.84	29,042	21	2	0	0	0			
20	5567.86	29,063	21	2	0	0	0			
21	5567.88	29,084	21	2	0	0	0			
22	5577.58	29,074	-10	2	0	0	0			
23	5567.90	29,105	31	2	0	0	0			
24	5567.89	29,095	-10	2	0	0	0			
25	5567.92	29,126	31	2	0	0	0			
26	5567.90	29,105	-21	2	0	0	0			
27	5567.91	29,116	11	2	0	0	0			
28	5567.95	29,158	42	2	0	0	0			
29	5567.97	29,179	21	2	0	0	0			
30	5568.03	29,243	64	2	0	0	0			
31	5568.07	29,285	42	2	0	0	0			
Total cfs-days				---	62	0	0	58	120	439
Total ac-ft				631	123	0	0	116	239	870

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Nov 30	5763.25	44,223								
1	5763.28	44,307	84	10	0	0	0			
2	5763.53	45,012	705	10	0	0	0			
3	5763.52	44,983	-29	10	0	0	0			
4	5763.52	44,983	0	10	0	0	0			
5	5763.50	44,927	-56	10	0	0	0			
6	5763.51	44,955	28	10	0	0	0			
7	5763.51	44,955	0	8	0	0	0			
8	5763.51	44,955	0	10	0	0	0			
9	5763.51	44,955	0	10	0	0	0			
10	5763.49	44,899	-56	10	0	0	0			
11	5763.48	44,870	-29	10	0	0	0			
12	5763.48	44,870	0	10	0	0	0			
13	5763.45	44,785	-85	10	0	0	0			
14	5763.53	45,012	227	10	0	0	0			
15	5763.53	45,012	0	10	0	0	0			
16	5763.51	44,955	-57	10	0	0	0			
17	5763.57	45,125	170	10	0	0	0			
18	5763.57	45,125	0	10	0	0	0			
19	5763.57	45,125	0	10	0	0	0			
20	5763.58	45,153	28	10	0	0	0			
21	5763.58	45,153	0	10	0	0	0			
22	5763.58	45,153	0	10	0	0	0			
23	5763.59	45,182	29	10	0	0	0			
24	5763.59	45,182	0	10	0	0	0			
25	5763.59	45,182	0	10	0	0	0			
26	5763.59	45,182	0	10	0	0	0			
27	5763.59	45,182	0	10	0	0	0			
28	5763.61	45,238	56	10	0	0	0			
29	5763.63	45,295	57	10	0	0	0			
30	5763.64	45,324	29	10	0	0	0			
31	5763.66	45,380	56	10	0	0	0			
Total cfs-days				- - -	308	0	0	0	156	
Total ac-ft				1,157	611	0	0	0	310	
									921	
									2,078	

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Nov 30	720.39	1,416,920								
	1	721.05	1,422,400	5,480	4,039	2	0	4,041	0	9,521
	2	723.28	1,441,025	18,625	2,672	2	29	0	2,703	0
	3	724.61	1,452,214	11,189	4,292	2	29	0	4,323	0
	4	724.92	1,454,830	2,616	5,248	2	0	5,250	0	7,866
	5	725.31	1,458,127	3,297	5,719	2	17	0	5,738	0
	6	725.15	1,456,774	-1,353	11,945	2	6	0	11,953	0
	7	725.57	1,460,327	3,553	6,246	2	12	0	6,260	0
	8	726.10	1,464,820	4,493	2,523	2	41	0	2,566	0
	9	726.88	1,471,449	6,629	22	2	6	0	30	0
	10	726.63	1,469,322	-2,127	7,633	2	53	0	7,688	0
	11	726.45	1,467,792	-1,530	7,260	2	59	0	7,321	0
	12	726.50	1,468,217	425	5,785	2	53	0	5,840	0
	13	726.09	1,464,735	-3,482	7,942	2	12	0	7,956	0
	14	726.67	1,469,662	4,927	5,621	2	24	0	5,647	0
	15	727.37	1,475,624	5,962	0	2	71	0	73	0
	16	727.90	1,480,149	4,525	919	2	24	0	945	0
	17	728.77	1,487,598	7,449	4,855	2	12	0	4,869	0
	18	729.50	1,493,869	6,271	4,862	2	0	0	4,864	0
	19	729.86	1,496,968	3,099	5,556	2	6	0	5,564	0
	20	730.59	1,503,266	6,298	6,149	2	12	0	6,163	327
	21	730.89	1,505,859	2,593	7,794	2	0	0	7,796	0
	22	731.56	1,511,663	5,804	2,913	2	0	0	2,915	0
	23	733.06	1,524,709	13,046	43	2	6	0	51	2,095
	24	733.57	1,529,161	4,452	4,024	2	48	0	4,074	11
	25	734.92	1,540,993	11,832	0	2	12	0	14	5,001
	26	735.06	1,542,223	1,230	5,713	2	0	0	5,715	0
	27	735.24	1,543,806	1,583	5,476	2	6	0	5,484	0
	28	735.49	1,546,007	2,201	8,103	2	18	0	8,123	0
	29	736.88	1,558,283	12,276	0	2	6	0	8	0
	30	738.78	1,575,174	16,891	0	2	0	0	2	2,833
	31	741.09	1,595,882	20,708	6,107	3	12	0	6,122	0
Total				178,962	139,461	63	574	0	140,098	10,267
										308,793

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

December 2001

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Nov 30	24,119										
1	23,984	-135	4,039	234	0	3,585	2	0	1,232	0	411
2	23,719	-265	2,672	228	0	2,454	2	0	1,234	0	525
3	23,992	273	4,292	206	0	3,215	2	0	1,219	0	211
4	24,294	302	5,248	230	0	4,066	2	0	1,229	0	121
5	24,353	59	5,719	230	0	4,793	2	0	1,224	0	129
6	24,122	-231	11,945	240	0	11,523	2	0	1,226	0	335
7	24,231	109	6,246	220	0	5,386	2	0	1,222	0	253
8	24,681	450	2,523	456	0	1,299	2	0	1,224	0	-4
9	23,909	-772	22	508	0	0	2	0	1,228	0	-72
10	23,936	27	7,633	514	0	7,216	2	0	1,228	0	326
11	24,019	83	7,260	450	0	6,181	2	0	1,232	0	-212
12	24,421	402	5,785	87	0	4,342	2	0	1,235	0	109
13	23,920	-501	7,942	79	0	7,675	2	0	1,247	0	402
14	25,388	1,468	5,621	343	0	3,824	2	0	1,257	0	587
15	24,577	-811	0	506	0	114	2	1	1,251	0	51
16	24,080	-497	919	508	0	718	2	1	1,253	0	50
17	24,148	68	4,855	512	0	4,951	2	1	1,273	0	928
18	23,959	-189	4,862	502	0	4,482	3	1	1,249	0	182
19	24,144	185	5,556	510	0	4,835	3	1	1,237	0	195
20	24,167	23	6,149	514	0	5,590	3	1	1,247	327	528
21	24,713	546	7,794	512	0	6,859	3	1	1,235	0	338
22	24,640	-73	2,913	509	0	2,535	3	1	1,232	0	276
23	24,611	-29	43	508	2,789	109	3	1	1,228	2,095	67
24	23,576	-1,035	4,024	509	0	4,459	3	1	1,228	11	134
25	24,395	819	0	508	6,554	88	3	1	1,226	5,001	76
26	24,212	-183	5,713	502	59	5,376	3	1	1,230	0	153
27	24,238	26	5,476	512	0	4,854	3	1	1,230	0	126
28	24,363	125	8,103	510	0	7,700	3	1	1,239	0	455
29	23,868	-495	0	508	0	106	3	1	1,241	0	348
30	24,035	167	0	512	3,228	96	3	1	1,251	2,833	611
31	24,194	159	6,107	508	0	5,569	3	1	1,233	0	350
Total		75	139,461	12,675	12,630	124,000	76	17	38,320	10,267	7,989

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Nov 30	126.04	20,279											
	1	126.28	20,924	645	3,585	1,221	4	504	315	1,156	0	260	
	2	126.19	20,681	-243	2,454	1,226	4	501	165	1,162	0	361	
	3	126.16	20,600	-81	3,215	1,226	4	500	99	1,160	0	-307	
	4	126.60	21,799	1,199	4,066	1,142	4	501	101	1,164	0	45	
	5	127.31	23,803	2,004	4,793	1,063	4	506	99	1,152	0	35	
	6	130.01	32,185	8,382	11,523	1,061	3	504	125	1,160	0	-288	
	7	130.70	34,517	2,332	5,386	1,071	4	506	173	1,152	0	-148	
	8	130.17	32,719	-1,798	1,299	1,063	4	504	194	1,160	0	-172	
	9	129.27	29,769	-2,950	0	1,067	4	501	196	1,162	0	-20	
	10	130.43	33,596	3,827	7,216	1,071	4	504	220	1,160	0	-430	
	11	131.33	36,714	3,118	6,181	1,077	4	504	266	1,164	0	-48	
	12	131.66	37,890	1,176	4,342	1,093	4	504	357	1,152	0	-56	
	13	133.03	42,956	5,066	7,675	1,093	4	506	426	1,160	0	580	
	14	133.06	43,070	114	3,824	1,093	8	506	440	1,154	0	-509	
	15	132.24	39,999	-3,071	114	1,087	12	501	411	1,156	0	-18	
	16	131.61	37,711	-2,288	718	1,101	12	501	391	1,154	0	153	
	17	132.07	39,375	1,664	4,951	1,093	8	502	395	1,156	0	-133	
	18	132.42	40,664	1,289	4,482	1,081	4	504	395	1,152	0	-57	
	19	132.86	42,311	1,647	4,835	1,065	4	508	393	1,166	0	-52	
	20	133.48	44,684	2,373	5,590	1,043	4	490	363	1,156	0	-161	
	21	134.48	48,631	3,947	6,859	1,023	4	486	282	1,166	0	49	
	22	134.44	48,470	-161	2,535	1,004	4	484	244	1,172	0	212	
	23	133.00	42,842	-5,628	109	1,006	4	482	244	1,160	2,789	-52	
	24	133.38	44,298	1,456	4,459	1,000	4	486	244	1,170	0	-99	
	25	130.86	35,069	-9,229	88	1,008	4	482	242	1,154	6,554	127	
	26	131.49	37,282	2,213	5,376	1,014	4	486	246	1,160	59	-194	
	27	132.03	39,229	1,947	4,854	1,004	4	482	244	1,150	0	-23	
	28	133.39	44,336	5,107	7,700	986	4	484	198	1,156	0	235	
	29	132.75	41,897	-2,439	106	980	4	484	136	1,148	0	207	
	30	131.28	36,538	-5,359	96	976	4	482	138	1,156	3,228	529	
	31	132.05	39,302	2,764	5,569	982	4	395	138	1,160	0	-126	
Total				19,023	124,000	33,020	147	15,290	7,880	35,910	12,630	-100	74,230

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

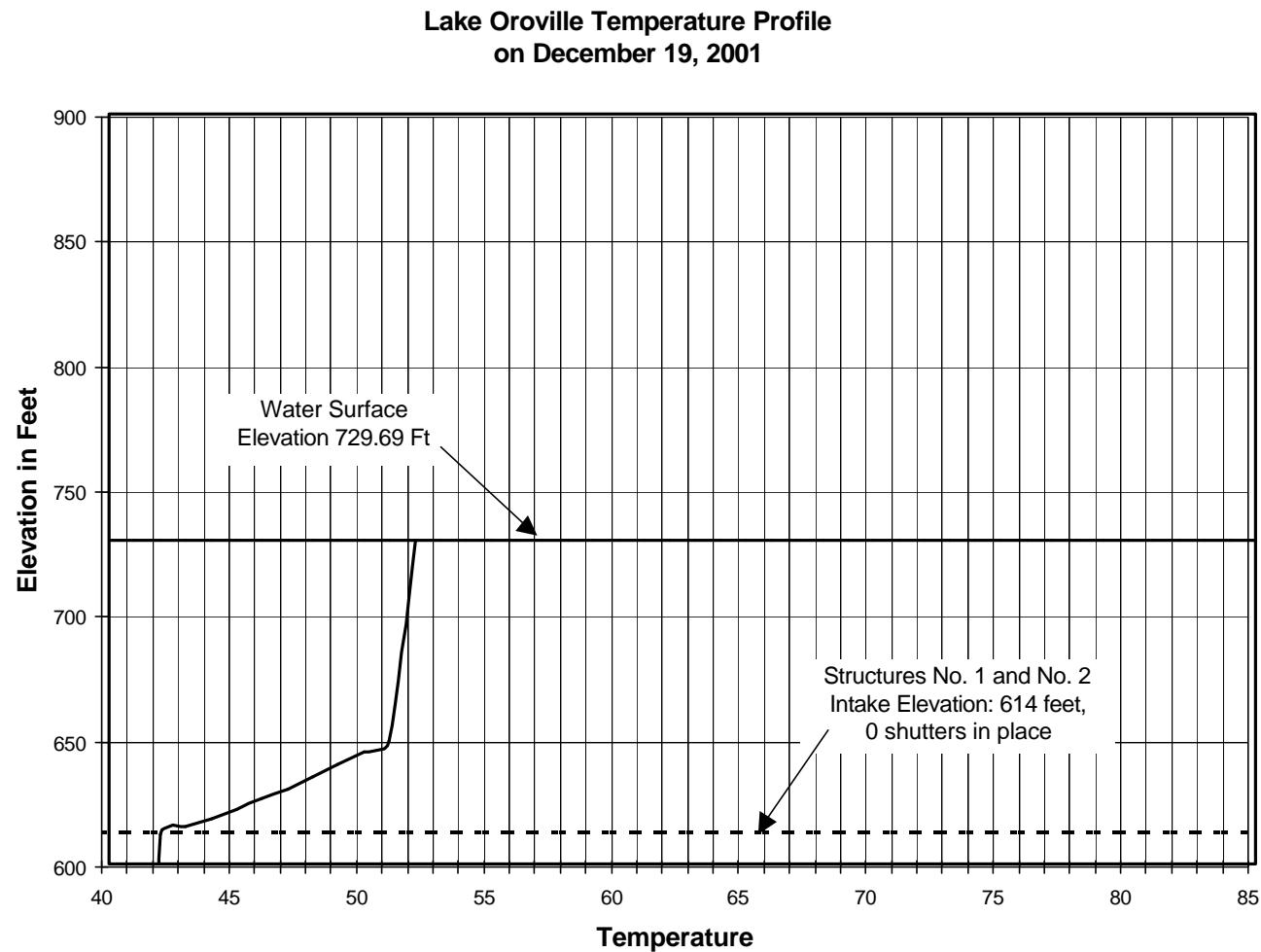
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

December 2001

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	47	56
2	47	56
3	48	54
4	47	54
5	47	54
6	47	54
7	48	55
8	48	55
9	48	55
10	47	54
11	47	53
12	47	53
13	47	53
14	47	53
15	46	52
16	46	52
17	46	52
18	46	51
19	46	51
20	46	51
21	47	51
22	47	51
23	47	51
24	47	51
25	46	51
26	47	50
27	47	50
28	47	50
29	47	50
30	48	50
31	49	50



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

December 2001

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Article 21 Water		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	1,141	10	5	68	17		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	85						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	68						
				Solano County Water Agency Fairfield / Vacaville 42"	5						
			17.00	Solano County Water Agency Central Solano	Stub						
		Cordelia Forebay	21.23								
3A	2	Cordelia Pumping Plant & Cordelia Spillway	21.30		961	1	378	85	1		
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	156						
				Solano County Water Agency Benicia	341						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	1						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	378						
			27.60	Napa County Flood Control & WCD American Canyon 1	85						

Table 9. Delta Field Division Plant Data

(in acre-feet)

December 2001

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	93	72	2,381	2,381	34	0	0	0
2	102	79	2,992	2,992	20	0	0	0
3	107	78	2,491	2,491	35	0	0	0
4	104	90	3,828	3,828	28	0	0	0
5	84	75	8,067	8,067	33	0	0	0
6	89	81	12,552	12,552	35	0	0	0
7	65	57	13,059	13,059	35	0	0	0
8	44	40	12,602	12,602	30	0	0	0
9	42	43	13,004	13,004	35	0	0	0
10	35	32	12,794	12,794	11	0	0	0
11	18	25	12,796	12,796	15	0	0	0
12	0	0	12,830	12,830	26	0	0	0
13	0	0	13,266	13,266	19	0	0	0
14	0	0	13,099	13,099	0	0	0	20
15	0	0	14,159	14,159	0	0	0	39
16	15	10	14,151	14,151	0	0	0	6
17	18	14	13,997	13,997	0	0	0	12
18	17	14	14,049	14,049	0	0	0	56
19	32	26	13,363	13,363	0	0	0	81
20	17	11	14,034	14,034	0	0	0	92
21	6	2	14,082	14,082	0	0	0	94
22	0	0	14,122	14,122	0	0	0	95
23	14	9	14,098	14,098	0	0	0	94
24	7	0	14,330	14,330	0	0	0	95
25	14	8	14,308	14,308	0	0	0	96
26	20	13	13,979	13,979	0	0	0	96
27	34	28	14,211	14,211	0	0	0	97
28	34	27	14,299	14,299	0	0	0	97
29	36	34	14,090	14,090	0	0	0	97
30	49	48	14,289	14,289	0	0	0	95
31	45	45	15,230	15,230	0	0	0	8
Total	1,141	961	376,552	376,552	356	0	0	1,270

Table 10. Clifton Court Forebay

Daily Operation of Gates

December 2001

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	3:30	8:03							1,994
2	4:15	7:32							1,983
3	0:16	1:42							1,975
4	0:01	2:15	12:05	14:30					3,957
5	0:01	3:18	6:39	11:30					7,917
6	0:01	4:14	7:14	18:50					13,239
7	0:01	5:10	8:12	21:15					13,233
8	0:03	6:12	9:12	23:23					13,249
9	1:30	7:08	10:15	19:44					13,241
10	0:05	0:45	2:46	12:05	15:25	21:30			11,999
11	0:30	12:58	16:07	22:15					13,161
12	1:15	13:50	15:30	21:04					13,238
13	2:04	14:38	17:30	21:53					13,223
14	2:46	15:32	18:15	19:19	23:47	---			13,241
15	---	0:25	3:25	16:10	19:00	20:30			14,267
16	0:05	1:07	4:10	16:59	19:19	22:15			14,366
17	0:01	1:45	4:45	17:47					14,363
18	5:36	18:36	20:40	22:45					14,371
19	0:20	3:07	11:13	---					14,375
20	---	2:42	6:49	20:39	22:06	---			14,271
21	---	3:50	8:50	21:49	23:02	---			13,414
22	---	3:40	8:21	22:58					14,209
23	0:14	4:30	9:12	23:56					12,570
24	1:45	11:00	14:30	20:46	23:46	---			12,783
25	---	11:50	15:03	21:28					14,351
26	0:28	12:39	15:39	20:33					14,365
27	1:09	13:27	16:14	20:12					14,362
28	1:45	14:13	16:56	20:10					14,342
29	2:25	14:56	17:36	18:53					14,369
30	3:04	15:40	18:20	20:00					14,461
31	0:01	0:44	3:44	16:27	23:00	---			15,359
Total inflow for the month in AF:									376,248

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Entitlement	USBR	Local	Loan Water	Carryover Ent.	
	No.	Structure	Mile								
1	Banks Pumping Plant	3.32			376,552						
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir inlet	356	2	23	23	0	0	
		Check No. 1	5.95								
	2	Check No. 2	12.01								
	3		12.47	Musco Olive	23						
	4		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
	5	Check No. 5	29.73								
	6	Check No. 6	34.24								
	7		35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
	8		42.46	Oak Flat Water District-A	0						
2B			42.9	Western Hills WD	0						
			43.81	Oak Flat Water District-B	2						
			44.64	Oak Flat Water District-C	0						
	9		45.97								
			46.18	Oak Flat Water District-D	0						
				Oak Flat Totals:	2	2	0	0	0	0	
		Check No. 9	51.3								
	10	Check No. 10	56.86								
	11	Check No. 11	61.4								
	12		66.14	Veteran's Cemetery	1						
		Check No. 12	66.71		359,996						

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement	General Wheeling	Local	Recreation		
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	356			384			
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	0						
	Check No. 1		3.91								
	2	Check No. 2	5.21								
2	3		7.21	Zone 7 Altamont	0			384			
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	384						
				Zone 7 Patterson Project Water	0						
4	4	Check No. 4	10.68					115	2		
	5	Check No. 5	12.29								
	6		13.55	Zone 7 Wente #1	0						
			14.16	Zone 7 Wente #2	0						
			14.31	Ising Project Water	0						
		Check No. 6	14.65								
	7		14.78	Zone 7 Arroyo Mocho	0						
		Check No. 7	16.38								
	8		16.57	Zone 7 Wente #3	0						
			16.69	Zone 7 Norman Nursery	0						
			16.70	Zone 7 Concannon Project Water	0						
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0						
				(Flow into South Bay Aqueduct)	1,270						
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Project Water	0						
				Arroyo Valle #1 & #2 Inflow Released	115						
				Lake Del Valle Recreation	2						
				Zone 7 Wente #5	0						
				So. Livermore Project	0						
6			19.20	So. Livermore Inflow Released	255		255	92			
				So. Livermore Storage Release	92						
			19.21	Zone 7 - Kalthrof Detjens	0						
7	La Costa Tunnel		22.50	ACWD Vallecitos Project Water	0		737	91			
			25.97	City of San Francisco San Antonio	0						
8	Mission Tunnel		28.97	ACWD - Bayside 1 & 2 Project Water: Inflow Released Storage Release	0 737 91						
9	Santa Clara Pipeline	35.86		S.C.V.W.D. Meter	0						

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

December 2001

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle 2/	South Bay Aqueduct	Recreation Deliveries 3/	Evaporation	Total Outflow 2/	
Nov 30	699.72	37,636									
1	699.71	37,629	-7	5	34	44	0	0	2	46	0.07
2	700.02	37,841	212	241	20	44	0	0	5	49	0.90
3	700.25	37,999	158	169	35	44	0	0	2	46	0.55
4	700.27	38,012	13	32	28	44	0	0	3	47	0.04
5	700.30	38,033	21	35	33	44	0	0	3	47	0.00
6	700.28	38,019	-14	-4	35	44	0	0	1	45	0.01
7	700.30	38,033	14	25	35	44	0	0	2	46	0.00
8	700.30	38,033	0	17	30	44	0	0	3	47	0.00
9	700.36	38,074	41	51	35	44	0	0	1	45	0.10
10	700.36	38,074	0	36	11	44	0	0	3	47	0.04
11	700.36	38,074	0	32	15	44	0	0	3	47	0.00
12	700.37	38,081	7	28	26	44	0	0	3	47	0.00
13	700.28	38,019	-62	-34	19	44	0	0	3	47	0.00
14	700.38	38,088	69	135	0	44	20	0	2	66	0.53
15	700.34	38,060	-28	57	0	44	39	0	2	85	0.00
16	700.36	38,074	14	66	0	44	6	0	2	52	0.00
17	700.40	38,102	28	87	0	44	12	0	3	59	0.14
18	700.31	38,040	-62	40	0	44	56	0	2	102	0.06
19	700.20	37,964	-76	51	0	44	81	0	2	127	0.00
20	700.24	37,992	28	167	0	45	92	0	2	139	0.23
21	700.49	38,163	171	312	0	45	94	0	2	141	0.66
22	700.56	38,212	49	191	0	45	95	0	2	142	0.00
23	700.56	38,212	0	141	0	45	94	0	2	141	0.10
24	700.50	38,170	-42	100	0	45	95	0	2	142	0.00
25	700.44	38,129	-41	102	0	45	96	0	2	143	0.00
26	700.31	38,040	-89	54	0	45	96	0	2	143	0.00
27	700.22	37,978	-62	82	0	45	97	0	2	144	0.00
28	700.23	37,985	7	151	0	45	97	0	2	144	0.48
29	700.83	38,398	413	557	0	45	97	0	2	144	1.20
30	700.44	38,129	-269	-127	0	45	95	1	1	142	0.10
31	699.81	37,697	-432	-288	0	45	96	1	2	144	0.48
Total				61	2,511	356	1,376	1,358	2	70	2,806
											5.69

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Not available on a daily basis

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

December 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Nov 30	219.39	41,579											
1	218.89	40,305	-1,274	0	615	0	938	0	862	1,271	5	-57	
2	218.00	38,072	-2,233	0	681	0	1,451	0	1,559	1,770	5	76	
3	218.81	40,103	2,031	0	715	460	998	0	0	1,016	5	-128	
4	219.80	42,635	2,532	0	1,187	0	1,714	0	0	1,683	4	63	
5	220.42	44,244	1,609	0	2,647	0	4,005	0	3,763	2,059	4	-15	
6	222.33	49,261	5,017	0	3,582	0	6,205	0	6,121	1,646	4	513	
7	221.79	47,835	-1,426	0	3,604	0	5,601	0	9,295	911	4	286	
8	222.24	49,022	1,187	0	3,569	0	6,097	0	7,549	1,871	5	357	
9	219.33	41,426	-7,596	0	3,646	0	6,549	0	12,831	1,547	7	360	
10	219.01	40,610	-816	0	3,702	0	6,120	0	9,034	1,559	7	367	
11	219.08	40,788	178	0	3,668	0	5,749	0	8,062	1,628	8	371	
12	221.32	46,600	5,812	0	3,659	0	6,738	0	6,836	1,033	7	409	
13	221.47	46,994	394	0	3,673	0	6,307	0	7,925	2,268	6	418	
14	221.57	47,257	263	0	3,690	0	6,654	0	8,287	2,311	6	393	
15	222.30	49,182	1,925	0	3,687	0	6,624	0	8,012	1,726	5	403	
16	219.05	40,711	-8,471	0	3,709	0	6,578	0	12,419	2,601	5	467	
17	220.82	45,289	4,578	0	3,671	0	6,943	0	6,051	2,505	5	255	
18	221.94	48,229	2,940	0	3,693	0	6,682	0	7,498	1,973	4	582	
19	222.24	49,022	793	0	3,718	0	6,484	0	7,840	2,384	4	426	
20	222.72	50,299	1,277	0	3,710	0	6,957	0	7,911	2,652	4	544	
21	222.91	50,806	507	0	3,373	0	6,657	0	7,942	2,143	4	315	
22	224.62	55,401	4,595	0	3,106	0	6,795	0	5,733	2,300	5	454	
23	221.58	47,283	-8,118	0	3,184	0	6,644	0	12,111	2,459	5	654	
24	223.19	51,554	4,271	0	3,172	0	6,767	0	5,933	2,144	5	296	
25	220.42	44,244	-7,310	0	3,407	0	7,211	0	11,910	2,958	5	570	
26	222.88	50,726	6,482	0	3,509	0	6,855	0	5,740	1,718	5	367	
27	224.00	53,727	3,001	0	3,532	0	7,086	0	7,286	2,107	5	293	
28	224.00	53,727	0	0	3,616	0	6,944	0	9,756	1,287	5	488	
29	223.70	52,920	-807	0	3,638	0	6,937	0	9,856	1,538	5	417	
30	221.46	46,968	-5,952	0	3,605	0	6,977	0	11,571	2,611	5	604	
31	223.04	51,153	4,185	0	3,587	0	7,229	0	7,851	1,248	5	398	
Total				9,574	0	98,555	460	181,496	0	227,544	58,927	158	10,945
Mean cfs				- - -	0	3,179	15	5,855	0	7,340	1,901	5	353
Acre-feet				9,574	0	195,484	912	359,996	0	451,334	116,881	314	21,711

1/ Pump-in located at Mile 79.67R.

2/ Includes 54 AF delivered to DFG at O'Neill Forebay, 207 AF to Parks and Recreation, 4 AF to P&R Cattle, and 49 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

December 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 2,027,835 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del. 2/	
Nov 30	449.21	964,447						
1	449.33	965,633	1,186	862	0	143	1	-120
2	449.67	968,999	3,366	1,559	0	149	0	287
3	449.56	967,910	-1,089	0	460	149	0	60
4	449.54	967,712	-198	0	0	172	1	73
5	450.14	973,658	5,946	3,763	0	142	0	-623
6	451.27	984,889	11,231	6,121	0	128	0	-331
7	453.00	1,002,166	17,277	9,295	0	143	1	-441
8	454.43	1,016,523	14,357	7,549	0	137	0	-174
9	456.81	1,040,566	24,043	12,831	0	141	0	-568
10	458.43	1,057,038	16,472	9,034	0	146	0	-583
11	459.88	1,071,853	14,815	8,062	0	141	1	-451
12	461.11	1,084,473	12,620	6,836	0	145	0	-329
13	462.54	1,099,205	14,732	7,925	0	159	0	-339
14	464.00	1,114,314	15,109	8,287	0	156	0	-514
15	465.40	1,128,864	14,550	8,012	0	166	1	-509
16	467.61	1,151,957	23,093	12,419	0	158	1	-617
17	468.66	1,162,981	11,024	6,051	0	175	0	-318
18	469.94	1,176,466	13,485	7,498	0	133	0	-566
19	471.30	1,190,848	14,382	7,840	0	136	1	-452
20	472.66	1,205,286	14,438	7,911	0	217	0	-415
21	474.08	1,220,421	15,135	7,942	0	159	0	-153
22	475.06	1,230,900	10,479	5,733	0	161	0	-289
23	477.14	1,253,271	22,371	12,111	0	163	1	-668
24	478.15	1,264,176	10,905	5,933	0	160	0	-275
25	480.17	1,286,081	21,905	11,910	0	140	0	-726
26	481.33	1,298,716	12,635	5,740	0	152	0	782
27	482.57	1,312,268	13,552	7,286	0	170	1	-283
28	484.25	1,330,704	18,436	9,756	0	157	0	-304
29	485.95	1,349,446	18,742	9,856	0	152	0	-255
30	487.89	1,370,941	21,495	11,571	0	147	0	-587
31	489.21	1,385,632	14,691	7,851	0	58	1	-385
Total			421,185	227,544	460	4,655	10	-10,073
Mean cfs			---	7,340	15	150	0	-325
Acre-feet			421,185	451,334	912	9,233	19	-19,985

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 8,194 AF, San Benito: 1,039 AF.

2/ The year end total for P&R = 19 AF; It has been included in this month for clarity.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

December 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	2,522	2,205	0	0	1,709	15	283
2	3,510	3,167	0	0	3,092	42	295
3	2,015	1,701	912	912	0	0	295
4	3,339	3,020	0	0	0	0	342
5	4,084	3,756	0	0	7,463	2,723	281
6	3,265	2,939	0	0	12,141	7,470	253
7	1,807	1,479	0	0	18,437	11,182	284
8	3,711	3,388	0	0	14,974	10,355	272
9	3,069	2,727	0	0	25,450	13,185	280
10	3,092	2,772	0	0	17,918	10,472	290
11	3,229	2,908	0	0	15,990	8,586	280
12	2,049	1,729	0	0	13,559	9,021	287
13	4,498	3,440	0	0	15,720	11,241	316
14	4,583	3,534	0	0	16,437	9,134	309
15	3,424	2,399	0	0	15,892	8,973	329
16	5,159	4,132	0	0	24,633	12,907	314
17	4,968	3,957	0	0	12,003	7,634	348
18	3,913	2,829	0	0	14,873	10,481	263
19	4,729	3,668	0	0	15,551	8,777	269
20	5,260	4,025	0	0	15,691	8,833	431
21	4,250	2,964	0	0	15,752	9,089	315
22	4,563	3,294	0	0	11,372	9,917	320
23	4,878	3,625	0	0	24,023	12,571	323
24	4,253	2,977	0	0	11,768	10,829	318
25	5,867	4,621	0	0	23,623	12,335	278
26	3,407	2,194	0	0	11,385	7,199	301
27	4,180	2,918	0	0	14,451	10,260	338
28	2,552	1,289	0	0	19,352	15,142	311
29	3,051	1,811	0	0	19,550	13,024	301
30	5,179	3,917	0	0	22,952	11,922	291
31	2,475	1,288	0	0	15,573	11,755	116
Total	116,881	90,673	912	912	451,334	275,074	9,233

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
December 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Nov 30	323.23	18,491					
1	323.22	18,486	-5	0	0	0	-5
2	323.26	18,504	18	9	0	0	0
3	323.26	18,504	0	0	0	0	0
4	323.26	18,504	0	0	0	0	0
5	323.22	18,486	-18	0	0	0	-18
6	323.23	18,491	5	3	0	0	-1
7	323.22	18,486	-5	0	0	0	-5
8	323.24	18,495	9	5	0	0	-1
9	323.21	18,482	-13	0	0	0	-13
10	323.21	18,482	0	0	0	0	0
11	323.19	18,473	-9	0	0	0	-9
12	323.19	18,473	0	0	0	0	0
13	323.19	18,473	0	0	0	0	0
14	323.20	18,477	4	2	0	0	0
15	323.17	18,464	-13	0	0	0	-13
16	323.16	18,460	-4	0	0	0	-4
17	323.18	18,468	8	4	0	0	0
18	323.17	18,464	-4	0	0	0	-4
19	323.18	18,468	4	2	0	0	0
20	323.19	18,473	5	3	0	0	-1
21	323.18	18,468	-5	0	0	0	-5
22	323.20	18,477	9	5	0	0	-1
23	323.20	18,477	0	0	0	0	0
24	323.20	18,477	0	0	0	0	0
25	323.22	18,486	9	5	0	0	-1
26	323.22	18,486	0	0	0	0	0
27	323.25	18,499	13	7	0	0	-1
28	323.28	18,513	14	7	0	0	0
29	323.25	18,499	-14	0	0	0	-14
30	324.56	19,085	586	295	0	0	1
31	324.94	19,257	172	87	0	0	0
Total			766	434	0	0	-95
Mean cfs			---	14	0	0	---
Acre-feet			766	861	0	0	-95

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

December 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Nov 30	602.20	803					
1	602.20	803	0	1	0	1	
2	602.10	797	-6	0	0	1	
3	Not Observed			1	0	1	
4	Not Observed			1	0	1	
5	602.35	812	15	10	0	2	
6	602.35	812	0	2	0	2	
7	602.35	812	0	2	0	2	
8	Not Observed			2	0	2	
9	602.35	812	0	1	0	1	
10	602.40	815	3	3	0	1	
11	602.40	815	0	1	0	1	
12	602.40	815	0	1	0	1	
13	Not Observed			1	0	1	
14	602.50	821	6	4	0	1	
15	602.50	821	0	1	0	1	
16	602.50	821	0	1	0	1	
17	602.50	821	0	1	0	1	
18	602.55	823	2	2	0	1	
19	602.60	826	3	3	0	1	
20	602.70	832	6	4	0	1	
21	602.70	832	0	2	0	2	
22	602.65	829	-3	0	0	2	
23	602.60	826	-3	0	0	2	
24	602.60	826	0	2	0	2	
25	602.60	826	0	2	0	2	
26	602.60	826	0	2	0	2	
27	Not Observed			2	0	2	
28	602.65	829	3	4	0	2	
29	602.65	829	0	2	0	2	
30	602.65	829	0	2	0	2	
31	602.65	829	0	2	0	2	
Total			26	62	0	46	---
Mean cfs			---	2	0	1	---
Acre-feet			26	123	0	91	-6

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		359,996						
3	13	O'Neill Forebay and San Luis Reservoir	70.85	Department of Parks and Recreation	207	160	49	114	93		
		Outlet Check No. 13		Department of Fish & Game	58			32	26		
		70.91 Thru	San Luis Water District	49							
			(Floodwater Inflow)	0							
		Dos Amigos Pumping Plant	86.73	Reach 3 Subtotal:	314		49	0	146		
					116,881			119			
4	14	89.03 Thru 94.06	San Luis Water District	160	91	30	67				
			Pacheco Water District	91							
			89.66 Thru 89.67								
			89.68	Panoche Water District	30						
			89.70	City of Dos Palos	67						
		Check No. 14	95.06								
4	15	98.15 Thru 104.20	San Luis Water District	13	641	1,850	1,850				
			Panoche Water District	641							
			96.15 Thru 102.64	(Floodwater Inflow)	0						
			102.64	Broadview Water District	0						
			105.22 Thru 108.64	Westlands Water District	1,850						
		Check No.15	108.50								
			Pacheco Water District Total:	91	91	0	0	0	0		
			Broadview Water District Total:	0	0	0	0	0	0		
			City of Dos Palos Total:	67	67	0	0	0	0		
			SLWD Reach 4 Subtotal:	173	173	0	0	0	0		
			Panoche Water District Total:	671	671	0	0	0	0		
			SLWD Total:	222	222	0	0	0	0		
			Westlands WD Reach 4 Subtotal:	1,850	1,850	0	0	0	0		

Table 19b. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			USBR	Transfer	DWR Recreation	USBR Recreation		
5	16		110.52	(Reverse flow, Kings River)	0	2,168			94		
			Thru	Westlands Water District	2,168						
			122.05	Department of Fish and Game	94						
		Check No. 16	122.07								
	17		124.18	Westlands Water District	1,356	1,356					
			Thru 132.74								
	Check No. 17	132.95									
	18		133.81	Westlands Water District	3,003	3,003					
			Thru 142.61								
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	1,516	1,516					
			143.16	City of Coalinga	178						
	Check No. 18	143.23									
				Westlands WD Reach 5 Subtotal:	8,043	8,043	0	0	0		
6	19		145.26	Westlands Water District	5,127	5,127					
			Thru 151.19								
		Check No. 19	155.64								
				Westlands WD Reach 6 Subtotal:	5,127	5,127	0	0	0		
7	20		156.34	City of Huron	44	44					
			156.40	Westlands Water District	2,213		2,213				
			Thru 163.69								
	Check No. 20	164.69									
	21		164.79	City of Avenal	99	99					
			167.04	Westlands Water District	429		429				
			Thru 171.67								
		Check No. 21	172.40		99,717						
				Reach 7 Total:	2,785	2,785	0	0	0		
				Westlands WD Total:	17,662	17,662	0	0	0		
				City of Coalinga Total:	178	178	0	0	0		
				City of Huron Total:	44	44	0	0	0		
				City of Avenal Total:	99	99	0	0	0		
				Phase I Water Total:	0	0	0	0	0		
				Total San Luis Field Division Deliveries:	19,393	19,034	0	146	213		

Table 20. Consolidated State-Federal San Luis Canal 1/Daily Operations
December 2001

United States
 Department of the Interior
 Bureau of Reclamation
 Central Valley Project

State of California
 The Resources Agency
 Department of Water Resources
 State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Nov 30	27,918								
1	27,881	-37	0	1,271	3	12	196	1,054	-25
2	28,256	375	0	1,770	3	10	193	1,400	25
3	28,098	-158	0	1,016	7	14	295	829	49
4	28,554	456	0	1,683	8	18	269	1,133	-25
5	28,392	-162	0	2,059	8	17	274	1,785	-56
6	28,536	144	0	1,646	6	16	295	1,149	-107
7	28,212	-324	0	911	7	17	299	757	5
8	28,848	636	0	1,871	8	12	342	1,150	-38
9	28,465	-383	0	1,547	6	16	319	1,472	73
10	28,406	-59	0	1,559	9	24	292	1,322	59
11	27,816	-590	0	1,628	5	17	286	1,559	-59
12	26,942	-874	0	1,033	4	18	293	1,140	-19
13	27,784	842	0	2,268	5	22	345	1,363	-109
14	28,651	867	0	2,311	4	21	343	1,456	-50
15	28,949	298	0	1,726	5	19	378	1,235	61
16	28,702	-247	0	2,601	6	18	386	2,348	32
17	29,267	565	0	2,505	7	13	452	1,839	91
18	28,626	-641	0	1,973	8	8	380	1,828	-72
19	28,870	244	0	2,384	8	8	382	1,867	4
20	29,447	577	0	2,652	6	5	346	1,993	-11
21	29,232	-215	0	2,143	4	5	348	1,943	49
22	29,175	-57	0	2,300	5	4	283	2,091	54
23	28,829	-346	0	2,459	4	8	294	2,441	113
24	28,773	-56	0	2,144	5	4	201	1,932	-30
25	29,222	449	0	2,958	4	2	246	2,704	225
26	29,093	-129	0	1,718	4	2	246	1,621	90
27	29,021	-72	0	2,107	4	1	204	1,983	50
28	28,555	-466	0	1,287	3	2	205	1,395	83
29	28,332	-223	0	1,538	3	1	247	1,519	120
30	27,701	-631	0	2,611	4	2	247	2,884	208
31	27,935	234	0	1,248	4	2	228	1,080	184
Total		17	0	58,927	167	338	9,114	50,273	974
Mean cfs	---		0	1,901	5	11	294	1,622	31
Acre-feet		17	0	116,881	331	671	18,077	99,717	1,932

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water and Flood Water is included in the gain or loss.

3/ Includes 90 AF AG & 1 AF M&I to Pacheco W.D. and 67 AF to the City of Dos Palos.

4/ Includes 44 AF to the City of Huron, 99 AF to the City of Avenal, 178 AF to the City of Coalinga, 1 AF to F&G @ WWD Lateral 4L, and 93 AF to F&G @ WWD Lateral 6L.

Table 21. San Joaquin Field Division Plant Data

December 2001

(in acre-feet)

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	46	46	33	31	34	2,286	2,383	2,383	2,491
2	39	39	36	35	39	3,417	3,360	3,214	3,223
3	90	90	45	42	47	2,000	2,159	2,084	2,118
4	123	123	59	54	60	2,257	2,373	2,311	2,401
5	90	90	45	41	47	3,768	3,976	3,867	3,752
6	93	93	43	40	42	2,807	2,999	2,937	2,909
7	115	115	56	53	59	2,429	2,343	2,293	2,313
8	77	77	39	35	39	2,372	2,492	2,396	2,367
9	56	56	29	27	31	3,752	3,912	4,066	3,859
10	101	101	45	41	46	2,655	2,808	2,613	2,605
11	95	95	30	29	32	3,143	3,026	3,048	3,011
12	129	129	56	51	57	1,987	2,106	2,027	2,075
13	56	56	34	33	35	2,011	2,147	2,074	2,081
14	87	87	58	54	61	1,666	1,636	1,641	1,690
15	54	54	45	43	46	1,393	1,360	1,301	1,399
16	34	34	35	33	38	3,391	3,333	3,268	3,215
17	42	42	34	30	33	2,981	3,079	2,947	2,855
18	80	80	45	44	48	2,211	2,311	2,350	2,435
19	87	87	62	57	62	3,002	3,027	2,864	2,911
20	57	57	45	42	48	3,656	3,431	3,450	3,430
21	73	73	46	42	48	3,352	3,494	3,444	3,357
22	77	77	42	38	42	3,160	3,227	3,073	3,040
23	49	49	43	41	46	4,832	4,813	4,786	4,808
24	50	50	58	53	59	3,577	3,762	3,679	3,577
25	47	47	42	36	42	4,885	5,068	4,973	4,945
26	33	33	32	30	34	3,207	3,253	3,222	3,110
27	56	56	59	55	61	3,663	3,243	3,122	3,137
28	64	64	38	35	39	2,913	3,218	3,189	3,161
29	45	45	40	37	43	3,023	3,178	3,143	3,075
30	77	77	47	44	49	5,085	5,102	5,044	5,047
31	32	32	33	31	34	2,178	2,487	2,375	2,405
Total	2,154	2,154	1,354	1,257	1,401	93,059	95,106	93,184	92,802

Table 22a. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	USBR	Return of Contractor Pump-in	Purchase Pool A	Purchase Pool B		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		99,717							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	460	1,071	272	468			
				County of Kings TL - A	460							
				TLBWSO TL-A	1,811							
				175.18 DRWD - 1	0							
			180.64	177.54 DRWD - 1B	0	14	4,583	26	272	468		
				180.65 DRWD - C	0							
				182.99 DRWD - 1A	0							
8D	22		183.00	183.00 DRWD - 2	14	4,583	26	272	468			
				Tulare Lake Basin WSD TL - B	4,583							
				184.00 Dudley Ridge Water Dist. Paramount	26							
			184.63	184.63 Coastal Branch	2,154	268	26	272	468			
				184.78 Dudley Ridge Water Dist. DRWD - 3	268							
				Dudley Ridge Reach 8D Total:	308							
8D	22			Tulare Lake Basin WSD Total:	6,394	5,654	0	0	0	0		
				Check No. 22	184.82							
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	191	142	49	49	49			
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	41							
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	115							
				196.40 Kern County Water Agency Berrenda Mesa - 2	0							
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	491							
				K.C.W.A. Reach 9 Subtotal:	838							
			Check No. 23	197.05		789	0	49	0	0		
10A	24			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	25							
		202.05	Kern County Water Agency Lost Hills Water Dist. - 5	0	41	49	49	49				
			204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0								
			205.26 Kern County Water Agency Lost Hills Water Dist. - 8	81								
		Check No. 24	207.94		81	2,830	160	160				
			209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	1								
		209.78	Kern National Wildlife Refuge USBR BV-1B	2,830	1	2,830	160	160				
			Kern County Water Agency Buena Vista WSD 1B	160								
		209.80	KCWA Semitropic WSD	0	0	2,830	0	0				
			KCWA Semitropic WSD Penstocks	0								
			USBR Total:	2,830	107	0	160	0	0			
			K.C.W.A. Reach 10A Subtotal:	267								

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitle-ment	Federal Wheeling	Return of Contractor Pump-in	Purchase Pool A	MWD Ent.		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	1	309	81	0	0		
			214.11	Kern County Water Agency Belridge - 3	1							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5	309							
				Kern County Water Agency Belridge - 5D	81							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	391							
12D	26		219.58	Kern County Water Agency Belridge - 6	0	7						
				Kern County Water Agency West Kern - 3	7							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0							
		Check No. 27	231.73									
	28		235.75	Kern County Water Agency Buena Vista - 2	0							
				Kern County WA CVC	0							
			238.04	DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
			238.04	Pixley ID	0							
				Hacienda	0							
		Check No. 28	238.11	DWR Wells	0							
				1/ Arvin Edison Total:	0							
				Reach 12E Subtotal:	0							
13B	29		238.19	Kern Water Bank Inflow	0							
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	0							
		Check No. 29		Buena Vista WSD	0							
			30	244.54								
				249.85	Kern County Water Agency Buena Vista - 4							
14A	31	Buena Vista Pumping Plant	250.99									
					93,059							
				K.C.W.A. Reach 13B Subtotal:	0							
			254.47	Kern County Water Agency West Kern - 2	0							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	0							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Entitle-ment	Inter-ruptible Ent.	Return of Contractor Pump-in	Exchange	MWD Ent.		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			4						
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	4		78					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	78							
		Check No. 32	261.72				82	0	0	0		
				KCWA Reach 14A Subtotal:	82				0	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	368	139			229			
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	8		8					
		Check No. 33	267.36				189					
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	189							
			271.27									
				Reach 14B Total:	565		336	0	229	0	0	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	306	306						
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	183		183					
				Reach 14C Total:	489	489	0	0	0	0	0	
	Teerink Pumping Plant		278.13		95,106							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	68	68						
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	146		146					
				Reach 15-A Total:	214	214	0	0	0	0	0	
	Chrisman Pumping Plant		280.36		93,184							
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	3						
		Check No. 37	283.95									
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	3	3						
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	0							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
		Check No. 38	287.09									
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	0							
		Check No. 39	290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	0	3						
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	0							
				Kern County Water Agency Tehachapi Cummings CWD	0							
				K.C.W.A. Reach 16A Subtotal:	3	3	0	0	0	0	0	
17E	Edmonston Pumping Plant		293.45		92,802							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Inter-ruptible Ent.	Return of Contractor Pump-in	Exchange	Purchase Pool A		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		2,154	137						
		Las Perillas Pumping Plant	1.16		2,154							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		2,154							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	137							
			14.83	Kern County Water Agency Berrenda Mesa - DD	0							
				Kern County Water Agency Berrenda Mesa - PO	648		117	531				
		Devil's Den Pumping Plant	14.86		1,354							
				K.C.W.A. Reach 31A Subtotal:	785	254	0	531	0	0		
				K.C.W.A. Total:	3,641	2,672	0	969	0	0		
33A	C-7	Bluestone Pumping Plant	19.05		1,257	1,011						
	C-8	Polonio Pass Pumping Plant	26.54		1,401							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,011							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	413	413						
		Energy Dissipater	78.12									
	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0		1,424	0	0	0		
				CCWA Total:	1,424							
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0		0	0	0	0		
38				SBCFC & WCD Total:	0							
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

December 2001

Date	West Branch					East Branch									Devil Canyon Powerplant Generation	
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Generation	Leakage	Bypass Flume	
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume				
1	1,495	1,609	0	1,926	17	956		0	499	516	0	0			1,031	
2	2,478	1,596	0	0	3,860	711		0	639	695	0	0			513	
3	1,042	1,583	0	2,346	3,434	1,025		0	1,182	1,072	0	0			917	
4	1,523	1,497	0	7,310	3,894	861		0	617	688	0	0			1,325	
5	1,573	1,637	0	2,655	0	2,160		0	2,068	2,361	0	0			1,850	
6	1,393	1,616	0	3,071	873	1,491		0	1,365	1,053	0	0			1,813	
7	1,465	1,651	0	4,498	1,244	846		0	761	1,120	0	0			1,849	
8	1,215	1,428	0	315	851	1,080		0	1,173	1,104	0	0			2,014	
9	2,179	1,571	0	108	1,220	1,742		0	1,621	1,538	0	0			1,467	
10	172	37	0	378	2,383	2,143		0	1,842	1,843	0	0			1,712	
11	688	0	0	3,163	840	2,204		0	2,514	2,112	0	0			1,652	
12	0	0	0	1,193	1,976	1,970		0	2,012	2,425	0	0			1,644	
13	0	0	0	1,133	1,186	1,957		0	1,788	1,925	0	0			1,602	
14	0	281	0	1,852	1,253	1,646		0	1,543	1,612	0	0			1,297	
15	0	627	0	380	0	1,379		0	1,178	1,044	0	0			1,045	
16	1,609	1,384	0	216	734	1,602		0	1,488	1,476	0	0			643	
17	1,383	1,494	0	4,614	1,398	1,482		0	1,420	1,447	0	0			1,179	
18	1,267	1,312	0	3,928	0	1,126		0	1,223	1,263	0	0			1,640	
19	1,617	1,597	0	3,813	1,424	1,250		0	1,124	1,080	0	0			1,351	
20	1,825	1,525	0	4,849	1,630	1,677		0	1,464	1,149	0	0			1,711	
21	1,661	1,584	0	6,620	1,175	1,713		0	1,483	1,543	0	0			1,495	
22	1,487	1,690	0	973	2,855	1,584		0	1,521	1,581	0	0			1,123	
23	1,946	1,648	0	1,425	2,015	2,902		0	2,669	2,751	0	0			1,194	
24	1,545	1,869	0	634	3,084	2,031		0	1,776	1,628	0	0			2,710	
25	3,050	3,072	0	2,662	1,305	2,001		0	2,043	2,121	0	0			2,285	
26	1,170	1,270	0	5,715	2,416	1,887		0	1,775	1,875	0	0			2,414	
27	1,193	1,457	0	5,791	1,422	1,885		0	1,673	1,901	0	0			2,385	
28	1,529	1,548	0	6,320	1,504	1,588		0	1,575	1,308	0	0			2,138	
29	1,466	1,612	0	2,097	1,963	1,580		0	1,728	1,715	0	0			672	
30	2,458	1,612	0	1,307	3,229	2,652		0	2,048	2,115	0	0			1,345	
31	989	1,739	0	2,492	3,240	1,460		0	1,395	1,233	0	0			1,589	
Total	41,418	41,546	0	83,784	52,425	50,591		0	340	47,207	47,294	0	0		47,605	

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek	
Nov 30	2566.29	155,220								
1	2565.96	154,819	-401	17	1,609	27	1,926	0	12	-116
2	2570.38	160,250	5,431	3,860	1,596	28	0	0	12	-41
3	2572.47	162,860	2,610	3,434	1,583	27	2,346	0	12	-76
4	2570.75	160,710	-2,150	3,894	1,497	27	7,310	0	12	-246
5	2569.83	159,567	-1,143	0	1,637	26	2,655	0	12	-139
6	2569.34	158,961	-606	873	1,616	26	3,071	0	12	-38
7	2567.85	157,126	-1,835	1,244	1,651	26	4,498	0	12	-246
8	2569.43	159,072	1,946	851	1,428	25	315	0	12	-31
9	2571.46	161,595	2,523	1,220	1,571	26	108	0	12	-174
10	2573.28	163,879	2,284	2,383	37	25	378	0	12	229
11	2571.81	162,033	-1,846	840	0	25	3,163	0	12	464
12	2572.47	162,860	827	1,976	0	25	1,193	0	12	31
13	2572.47	162,860	0	1,186	0	25	1,133	0	12	-66
14	2572.24	162,571	-289	1,253	281	25	1,852	0	12	16
15	2572.37	162,734	163	0	627	25	380	0	12	-97
16	2573.75	164,472	1,738	734	1,384	24	216	0	12	-176
17	2572.35	162,709	-1,763	1,398	1,494	24	4,614	0	12	-53
18	2570.34	160,200	-2,509	0	1,312	24	3,928	0	12	95
19	2569.61	159,295	-905	1,424	1,597	24	3,813	0	12	-125
20	2568.15	157,495	-1,800	1,630	1,525	24	4,849	0	12	-118
21	2564.74	153,340	-4,155	1,175	1,584	30	6,620	0	12	-312
22	2567.70	156,942	3,602	2,855	1,690	27	973	0	12	15
23	2569.48	159,134	2,192	2,015	1,648	27	1,425	0	12	-61
24	2572.99	163,514	4,380	3,084	1,869	27	634	0	12	46
25	2574.26	165,118	1,604	1,305	3,072	27	2,662	0	12	-126
26	2572.62	163,048	-2,070	2,416	1,270	27	5,715	0	12	-56
27	2570.26	160,101	-2,947	1,422	1,457	27	5,791	0	13	-49
28	2567.50	156,697	-3,404	1,504	1,548	27	6,320	0	13	-150
29	2568.66	158,122	1,425	1,963	1,612	29	2,097	0	13	-69
30	2571.44	161,570	3,448	3,229	1,612	30	1,307	0	13	-103
31	2573.49	164,144	2,574	3,240	1,739	30	2,492	0	13	70
Total				8,924	52,425	41,546	816	83,784	0	377
										-1,702

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Nov 30	1529.01	27,225								
1	1532.99	29,081	1,856	1,926	0	17	0	0	-53	
2	1524.70	25,282	-3,799	0	0	3,860	0	0	61	
3	1515.01	21,165	-4,117	2,346	0	3,434	0	3,063	34	
4	1523.23	24,636	3,471	7,310	0	3,894	0	0	55	
5	1521.00	23,668	-968	2,655	1	0	1	3,621	-2	
6	1525.90	25,816	2,148	3,071	1	873	1	0	-50	
7	1526.12	25,914	98	4,498	1	1,244	1	3,156	0	
8	1524.84	25,344	-570	315	1	851	1	0	-34	
9	1522.36	24,256	-1,088	108	0	1,220	0	0	24	
10	1510.09	19,219	-5,037	378	0	2,383	0	3,032	0	
11	1515.84	21,503	2,284	3,163	0	840	0	0	-39	
12	1513.88	20,708	-795	1,193	0	1,976	0	0	-12	
13	1513.77	20,664	-44	1,133	0	1,186	0	0	9	
14	1515.13	21,213	549	1,852	0	1,253	0	0	-50	
15	1515.91	21,531	318	380	0	0	0	0	-62	
16	1514.64	21,014	-517	216	0	734	0	0	1	
17	1514.84	21,095	81	4,614	0	1,398	0	3,135	0	
18	1523.88	24,921	3,826	3,928	0	0	0	0	-102	
19	1522.63	24,374	-547	3,813	0	1,424	0	2,935	-1	
20	1524.41	25,154	780	4,849	1	1,630	1	2,439	0	
21	1532.41	28,807	3,653	6,620	1	1,175	1	1,792	0	
22	1528.04	26,781	-2,026	973	1	2,855	1	0	-144	
23	1526.74	26,193	-588	1,425	1	2,015	1	0	2	
24	1516.55	21,794	-4,399	634	1	3,084	1	1,949	0	
25	1519.68	23,104	1,310	2,662	1	1,305	1	0	-47	
26	1520.25	23,347	243	5,715	1	2,416	1	3,056	0	
27	1529.85	27,612	4,265	5,791	0	1,422	0	0	-104	
28	1529.45	27,427	-185	6,320	0	1,504	0	4,999	-2	
29	1529.73	27,556	129	2,097	0	1,963	0	0	-5	
30	1525.50	25,638	-1,918	1,307	0	3,229	0	0	4	
31	1516.54	21,790	-3,848	2,492		3,240	0	3,089	-11	
Total			-5,435	83,784	11	52,425	11	36,266	-528	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Nov 30	1497.12	285,175							
1	1496.37	283,621	-1,554	0	0	2	1,617	0	
2	1495.59	282,011	-1,610	0	0	3	1,684	0	
3	1496.28	283,435	1,424	0	3,063	4	1,711	0	
4	1495.82	282,485	-950	0	0	4	917	0	
5	1497.43	285,818	3,333	1	3,621	3	286	0	
6	1497.04	285,009	-809	1	0	3	734	0	
7	1497.96	286,920	1,911	1	3,156	2	735	0	
8	1497.33	285,610	-1,310	1	0	2	1,240	0	
9	1496.69	284,283	-1,327	0	0	2	1,333	0	
10	1497.52	286,005	1,722	0	3,032	2	1,375	0	
11	1496.78	284,470	-1,535	0	0	2	1,478	0	
12	1496.06	282,981	-1,489	0	0	2	1,570	0	
13	1495.31	281,434	-1,547	0	0	2	1,487	0	
14	1494.67	280,119	-1,315	0	0	3	1,478	0	
15	1493.90	278,541	-1,578	0	0	3	1,428	0	
16	1493.21	277,131	-1,410	0	0	2	1,394	0	
17	1493.99	278,725	1,594	0	3,135	2	1,477	0	
18	1493.27	277,254	-1,471	0	0	2	1,518	0	
19	1493.98	278,704	1,450	0	2,935	2	1,446	0	
20	1494.51	279,790	1,086	1	2,439	3	1,356	0	
21	1494.85	280,488	698	1	1,792	5	1,323	0	
22	1494.22	279,196	-1,292	1	0	3	1,369	0	
23	1493.55	277,825	-1,371	1	0	3	1,371	0	
24	1493.88	278,500	675	1	1,949	3	1,386	0	
25	1493.28	277,274	-1,226	1	0	2	1,376	0	
26	1494.07	278,889	1,615	0	3,056	2	1,403	0	
27	1493.47	277,662	-1,227	0	0	2	1,326	0	
28	1495.31	281,434	3,772	0	4,999	3	1,207	0	
29	1494.80	280,386	-1,048	0	0	3	1,210	0	
30	1494.26	279,278	-1,108	0	0	3	1,161	0	
31	1495.28	281,373	2,095	1	3,089	3	1,136	0	
Total				-3,802	11	36,266	82	40,532	
								0	
								371	

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Local	Misc.	CLWA T1		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		41,418							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07		41,546							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(52,425 AF pumpback)	83,784							
29J	W4	Elderberry Forebay										
		Forebay Dam	28.12									
		Castaic Lake		Calif. State Park Castaic Lake Recreation	10							
30 1/	W5	Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWD - 78"	9,026							
				MWD - 132"	28,746							
				Castaic Lake WA - T1	1,542							
				Castaic Lake WA	1,052							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	156							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	0							
				Reach 30 Subtotal:	40,532	18,628	10	1,052	19,300	1,542		
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Includes 14,300 AF of Flexible Storage Withdrawal and 5,000 AF of Arvin Edison Water Bank recovery.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Rec.	San Bernardino Tunnel						
Nov 30	3352.46	72,513												
1	3351.98	72,054	-459	516	0	0	8	0	1,031	0	0	64	0	
2	3352.06	72,130	76	695	0	0	3	0	513	0	1	-102	0	
3	3352.26	72,322	192	1,072	0	0	4	0	917	0	0	41	0	
4	3351.59	71,682	-640	688	0	0	3	0	1,325	0	1	1	0	
5	3351.91	71,987	305	2,361	0	0	1	0	1,850	0	0	-205	0	
6	3351.13	71,245	-742	1,053	0	0	0	0	1,813	0	1	19	0	
7	3350.38	70,535	-710	1,120	0	0	1	0	1,849	0	0	20	0	
8	3349.49	69,697	-838	1,104	0	0	5	0	2,014	0	1	78	0	
9	3349.53	69,735	38	1,538	0	0	5	0	1,467	0	0	-28	0	
10	3349.63	69,829	94	1,843	0	0	4	0	1,712	0	1	-32	0	
11	3350.13	70,299	470	2,112	0	0	3	1	1,652	0	0	14	0	
12	3350.84	70,970	671	2,425	0	0	3	0	1,644	0	0	-107	0	
13	3351.21	71,321	351	1,925	0	0	3	0	1,602	0	0	31	0	
14	3351.51	71,606	285	1,612	0	0	3	0	1,297	0	0	-27	0	
15	3351.60	71,691	85	1,044	0	1	4	0	1,045	0	0	89	0	
16	3352.30	72,360	669	1,476	0	1	3	0	643	0	1	-161	0	
17	3352.74	72,782	422	1,447	0	0	3	0	1,179	0	0	157	0	
18	3352.27	72,331	-451	1,263	0	1	3	0	1,640	0	1	-71	0	
19	3352.06	72,130	-201	1,080	0	0	3	1	1,351	0	0	74	0	
20	3351.48	71,577	-553	1,149	0	1	4	0	1,711	0	0	12	0	
21	3351.43	71,530	-47	1,543	0	2	5	0	1,495	0	0	-92	0	
22	3352.03	72,102	572	1,581	0	1	3	0	1,123	0	1	117	0	
23	3353.45	73,465	1,363	2,751	0	1	4	0	1,194	0	0	-191	0	
24	3352.20	72,264	-1,201	1,628	0	1	1	0	2,710	0	1	-118	0	
25	3352.10	72,169	-95	2,121	0	1	1	0	2,285	0	0	69	0	
26	3351.66	71,749	-420	1,875	0	1	1	0	2,414	0	0	119	0	
27	3351.28	71,387	-362	1,901	0	1	4	0	2,385	0	0	125	0	
28	3350.41	70,563	-824	1,308	0	0	4	0	2,143	0	1	16	0	
29	3351.60	71,691	1,128	1,715	0	1	5	0	672	0	0	89	0	
30	3352.25	72,312	621	2,115	0	1	4	0	1,345	0	1	-145	0	
31	3352.03	72,102	-210	1,233	0	0	4	0	1,589	0	0	150	0	
Total				-411	47,294	0	16	102	2	47,610	0	11	4	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

December 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Nov 30	1585.86	121,971				
1	1585.50	121,159	-812		10	
2	1585.71	121,633	474		7	
3	1585.71	121,633	0		14	
4	1585.65	121,497	-136		6	
5	1585.54	121,249	-248		209	
6	1585.41	120,957	-292		209	
7	1585.26	120,619	-338		236	
8	1585.11	120,282	-337		355	
9	1584.97	119,968	-314		398	
10	1584.84	119,676	-292		279	
11	1584.72	119,407	-269		207	
12	1584.61	119,161	-246		208	
13	1584.52	118,960	-201		236	
14	1584.38	118,647	-313		314	
15	1584.13	118,089	-558		505	
16	1583.92	117,621	-468		505	
17	1583.88	117,532	-89		310	
18	1583.69	117,109	-423		307	
19	1583.54	116,776	-333		308	
20	1583.40	116,465	-311		308	
21	1583.34	116,332	-133		364	
22	1583.12	115,844	-488		526	
23	1583.04	115,667	-177		526	
24	1583.18	115,977	310		525	
25	1583.36	116,376	399		525	
26	1583.57	116,842	466		526	
27	1583.76	117,265	423		591	
28	1583.81	117,376	111		625	
29	1583.76	117,265	-111		624	
30	1583.64	116,998	-267		624	
31	1583.63	116,976	-22		625	
Total			-4,995	7,753	11,012	-1,736

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Transfer 1/	Purchase Pool B			
	No.	Structure	Mile							Transfer Local Out		
17E	40	Edmonston Pumping Plant	293.45			92,802						
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 340 AF flow down Cottonwood Chute)	50,591	1	575	76				
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
		Check No. 44	314.81									
	45		314.93	AVEK 235th Street West	1							
			315.57	AVEK 225th Street West	0							
	46	Check No. 45	319.74									
			323.19	Antelope Valley-East Kern WA Fairmont	651							
		Check No. 46	323.84									
				Reach 19 Total:	652							
20A	47	Check No. 47	326.77			1,857	56	76				
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	56							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0							
			339.68	Antelope Valley-East Kern WA	1,857							
		Check No. 50	341.51	Antelope Valley-East Kern WA	13							
20B	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use							
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	0							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	58							
		Check No. 53	348.17									
21	54	Check No. 54	350.25			170	58	76				
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
	57	Check No. 57	356.93									
22A	58		357.60	Antelope Valley-East Kern WA	0							
			357.72	Antelope Valley-East Kern WA 96th Street East	0							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	170							

1/ AVEK transferred this water to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

December 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries									
	Beginning and Ending					Entitle-ment	Recreation	Ex-change	Misc.	Local					
	No.	Structure	Mile												
22B	58	Pearblossom Pumping Plant	360.61		47,207	67	102	2	26,027	2,360					
	59	Check No. 59	366.09												
	60	Check No. 60	373.94												
	61	Check No. 61	379.00												
	62	Check No. 62	384.26												
	63	Check No. 63	389.20		Mojave Water Agency Mojave River										
	64	Check No. 64	395.10												
	65	Check No. 65	400.32												
	66		401.10		Mojave Water Agency Morongo 24" and 42"	67									
					Mojave Water Agency Hesperia										
23	Check No. 66	403.41													
	Mojave Siphon	405.48			Las Flores Ranch										
24	Mojave Siphon Powerplant	405.65					47,294								
	Silverwood Lake	407.65			Crestline Lake Arrowhead Water Agency	102	2		26,027	2,360					
25	San Bernardino Tunnel				Calif. State Park Silverwood Agency (Rec.)										
		411.46													
26A	Devil Canyon Powerplant				San Gorgonio Pass Water Agency										
		412.73													
					47,610										
					47,605										
					MWD-SC Rialto	26,027	7,998	56	1,743	5,292					
					Desert Water Agency (MWD Wheeling Exchange)										
					San Gabriel Valley Water District										
					Coachella Valley WD (MWD Wheeling Exchange)										
					San Bernardino Valley MWD 24" and 72"										
					San Bernardino Valley MWD 48"										
					MWD (SBVMWD Exchange)										
28G	Santa Ana Valley Pipeline	425.46													
28H		433.06			MWD-SC Box Springs	3,071	300	20	5,400	5,400					
		440.05			MWD-SC Perris Bypass Pipeline										
28J	Lake Perris	442.00			MWD-SC 18"	300									
		443.44			MWD-SC 54"	5,292									
					MWD-SC 78"	5,400									
					Calif. State Park Lake Perris Recreation	20									
					MWD Total:	81,303	51,311	0	0	1/ 29,992					

1/ Includes 24,992 AF of Flexible Storage Withdrawal and 5,000 AF of Arvin Edison Water Bank recovery.

Table 32. Water Quality At Selected SWP Locations

December 2001

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	49	78	77	79	88	84	77	73	79
Antimony	mg/l	NR	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.003	0.003
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	NR	0.02	0.26	0.24	0.34	0.33	0.32	0.31	0.35
Calcium	mg/l	10	12	18	19	23	21	21	21	21
Carbon - Dissolved Organic	mg/l as C	NR	9	4	4	4	3	3	2	2
Carbon - Total Organic	mg/l as C	NR	11	4	4	4	3	2	2	2
Chloride	mg/l	1	17	83	74	93	105	95	93	<1
Chromium	mg/l	<0.001	<0.001	0.003	0.003	0.002	0.003	0.002	0.002	0.002
Copper	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.002
Fluoride	mg/l	<0.1	0.2	0.1	0.1	0.1	<0.1	0.1	<0.1	0.1
Hardness	mg/l as CaCO ₃	42	76	99	100	120	112	106.5	98.5	109
Iron	mg/l	<0.005	0.088	0.038	0.022	0.027	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.38	11.1	13.3	12.9	15.3	14.4	13	11.23	14
Manganese	mg/l	<0.005	0.128	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	0.02	0.31	0.87	NR	NR	1.02	NR	1.07	0.66
Phosphorus-Ortho	mg/l as P	<0.01	0.08	0.07	NR	NR	0.09	NR	0.06	0.08
Phosphorus-Total	mg/l	<0.01	0.23	0.10	NR	NR	0.10	NR	0.07	0.08
Selenium	mg/l	NR	<0.001	0.001	NR	NR	NR	<0.001	<0.001	<0.001
Sodium	mg/l	4.06	22.1	53	49.5	64.6	64.9	64.5	64	70
Specific Conductance	µS/cm	103	261	507	479	590	582	567	568	624
Sulfate	mg/l	2	22	32	33	47	42	44	48.5	44
Total Dissolved Solids	mg/l	62	162	276	273	333	322.25	310	312.5	330
Turbidity	NTU	3	69	15	17	12	3.65	5.85	4.85	2

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

December 2001

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 19, 2001	Toluene 2,4-Dichlorophenylacetic acid (DCAA)	1.1 1.06
California Aqueduct At Banks Pumping Plant	September 19, 2001	Toluene 2,4-Dichlorophenylacetic acid (DCAA)	0.73 0.909
O'Neill Forebay Outlet Check 13	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.88
Delta Mendota Canal At McCabe Road	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA) Methyl tert-butyl ether (MTBE)	0.94 1.2
California Aqueduct Near Kettleman City (Check 21)	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.82
California Aqueduct At Near Highway 119 (Check 21)	September 18, 2001	2,4-Dichlorophenylacetic acid (DCAA)	1.00
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	September 17, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.81

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

December 2001

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	2,001,312	4,896	16,940	27,594	569,280	569,280	31,505	183
2	1,247,040	5,472	18,186	29,610	741,312	741,312	21,835	193
3	1,958,688	0	19,166	29,547	596,160	596,160	32,575	203
4	2,575,872	0	18,928	34,720	1,074,240	1,074,240	28,875	194
5	2,664,288	288	15,036	27,279	2,257,920	2,257,920	34,715	190
6	5,999,904	3,168	16,100	30,478	3,564,480	3,564,480	36,570	192
7	2,971,584	288	11,627	23,401	3,709,248	3,709,248	36,590	188
8	1,195,200	7,776	7,847	19,579	3,586,560	3,586,560	31,950	187
9	46,944	12,096	7,329	21,252	3,681,984	3,681,984	36,750	188
10	3,823,200	5,760	6,139	16,212	3,637,824	3,637,824	18,525	209
11	3,576,096	3,744	3,290	14,532	3,645,888	3,645,888	22,240	204
12	2,861,568	5,760	0	392	3,638,784	3,638,784	28,730	209
13	4,055,616	2,592	0	385	3,761,664	3,761,664	24,800	204
14	2,687,328	6,336	0	392	3,695,808	3,695,808	10,460	234
15	38,880	12,960	0	385	4,008,384	4,008,384	10,765	266
16	471,744	12,384	0	385	4,015,680	4,015,680	11,455	254
17	2,390,688	6,048	2,583	4,214	3,975,552	3,975,552	11,025	321
18	2,422,080	3,456	3,353	5,754	3,981,312	3,981,312	11,265	345
19	2,741,472	4,896	3,185	5,978	3,809,664	3,809,664	12,055	300
20	3,035,520	206,208	5,964	8,743	3,966,528	3,966,528	11,840	317
21	3,862,944	1,152	3,052	4,879	3,992,448	3,992,448	12,025	297
22	1,527,264	8,640	1,274	1,323	4,011,840	4,011,840	10,955	286
23	42,336	1,641,312	315	392	4,000,128	4,000,128	11,365	286
24	2,056,320	14,112	2,576	4,466	4,080,960	4,080,960	11,655	286
25	36,288	3,775,392	1,344	385	4,080,384	4,080,384	11,030	281
26	2,861,568	10,656	2,555	4,277	3,972,288	3,972,288	10,835	284
27	2,736,864	5,760	3,689	6,202	4,012,416	4,012,416	10,990	285
28	4,073,472	3,168	6,062	13,104	4,030,656	4,030,656	11,470	292
29	38,304	12,096	6,405	17,444	3,973,248	3,973,248	10,610	307
30	37,440	2,164,608	8,659	20,958	4,016,064	4,016,064	12,080	320
31	3,110,688	12,672	7,875	22,393	4,307,520	4,307,520	12,580	317
Total	69,148,512	7,953,696	199,479	396,655	106,396,224	106,396,224	590,120	7,822

Table 36. San Luis Field Division Energy Data

(in kWh)

December 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	363,456	318,456	0	0	500,832	19,832
2	491,328	443,328	0	0	882,144	18,144
3	291,456	246,456	178,272	178,272	22,464	22,464
4	470,448	425,448	0	0	25,632	25,632
5	560,304	515,304	0	0	2,100,096	777,096
6	451,008	406,008	0	0	3,451,104	2,128,104
7	255,168	210,168	0	0	5,207,328	3,158,328
8	516,240	471,240	0	0	4,260,096	2,946,096
9	430,272	382,272	0	0	7,270,560	3,766,560
10	434,304	389,304	0	0	5,147,136	3,008,136
11	452,736	407,736	0	0	4,619,232	2,480,232
12	295,776	250,776	0	0	3,936,960	2,622,960
13	612,432	468,432	0	0	4,548,672	3,252,672
14	629,136	485,136	0	0	4,773,600	2,652,600
15	480,960	336,960	0	0	4,630,176	2,614,176
16	723,456	579,456	0	0	7,260,192	3,804,192
17	707,760	563,760	0	0	3,560,256	2,264,256
18	523,872	379,872	0	0	4,389,120	3,093,120
19	641,952	497,952	0	0	4,628,160	2,612,160
20	728,208	557,208	0	0	4,612,320	2,596,320
21	564,912	393,912	0	0	4,765,824	2,749,824
22	614,736	443,736	0	0	3,375,648	2,943,648
23	653,904	485,904	0	0	7,249,536	3,793,536
24	574,704	403,704	0	0	3,608,352	3,320,352
25	791,280	623,280	0	0	7,232,256	3,776,256
26	480,384	309,384	0	0	3,537,216	2,241,216
27	566,496	395,496	0	0	4,468,320	3,172,320
28	354,384	183,384	0	0	5,956,704	4,660,704
29	423,648	252,648	0	0	6,039,648	4,023,648
30	689,328	521,328	0	0	7,191,360	3,735,360
31	361,440	190,440	0	0	4,894,272	3,694,272
Total	16,135,488	12,538,488	178,272	178,272	134,145,216	81,974,216

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

December 2001

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	3,802	9,008	25,182	23,760	25,704	557,568	630,000	1,461,024	5,569,200
2	3,286	7,448	27,036	26,154	28,098	820,512	886,320	1,974,816	7,308,000
3	6,756	16,336	33,228	31,302	33,912	480,384	577,080	1,287,072	4,753,440
4	9,046	23,128	42,660	40,158	43,272	548,568	620,856	1,418,400	5,376,240
5	6,850	17,968	32,994	31,356	33,732	917,568	1,044,216	2,329,344	8,488,080
6	6,854	17,072	30,924	29,052	29,862	676,584	789,120	1,779,552	6,604,560
7	8,634	21,072	45,378	43,920	46,908	594,936	617,544	1,413,792	5,165,280
8	6,026	14,056	28,800	26,532	28,800	561,240	656,496	1,472,256	5,289,120
9	4,556	12,256	21,654	21,078	22,680	910,224	1,024,200	2,351,232	8,751,600
10	7,718	18,464	33,192	30,942	33,192	652,536	737,064	1,639,296	5,911,920
11	7,200	18,488	22,770	21,996	23,796	763,632	804,312	1,847,520	6,834,240
12	9,574	24,248	40,500	38,106	40,968	508,320	555,120	1,245,312	4,664,880
13	4,854	10,928	25,614	25,110	26,226	490,536	570,024	1,275,264	4,676,400
14	6,636	16,768	42,390	40,410	43,668	410,040	438,264	1,013,760	3,809,520
15	4,434	10,032	33,030	31,086	33,354	345,528	366,912	819,648	3,160,080
16	3,060	6,688	26,226	25,164	28,098	811,656	874,656	1,977,408	7,297,200
17	3,554	8,144	25,218	23,310	24,498	716,112	809,280	1,809,216	6,478,560
18	6,284	15,352	32,958	32,562	35,424	536,760	623,592	1,436,256	5,430,960
19	6,708	16,440	44,892	42,300	44,568	727,920	814,824	1,760,544	6,621,120
20	4,736	11,128	33,066	32,040	34,452	850,824	916,920	2,098,080	7,789,680
21	5,728	15,928	33,624	31,752	34,884	809,928	914,904	2,090,592	7,598,160
22	5,822	12,680	31,104	28,908	30,510	740,376	844,776	1,878,048	6,909,840
23	4,140	9,576	31,734	30,726	33,354	1,165,752	1,262,880	2,884,608	10,900,800
24	4,258	10,848	42,012	39,762	42,642	861,048	985,824	2,228,544	8,103,600
25	4,020	8,664	29,466	27,900	30,456	1,177,560	1,327,320	2,999,232	11,217,600
26	3,082	6,808	24,408	23,040	24,894	775,368	856,872	1,952,064	7,043,040
27	4,568	11,328	43,272	40,932	44,298	821,880	852,624	1,900,224	7,113,600
28	5,158	12,152	28,206	26,568	28,242	706,248	844,344	1,932,768	7,156,800
29	3,926	8,720	29,934	28,116	30,834	737,928	821,808	1,877,472	6,942,240
30	6,052	14,048	34,416	33,138	35,406	1,236,672	1,335,600	3,063,168	11,435,760
31	3,004	7,360	24,426	23,616	25,434	523,296	655,200	1,467,648	5,389,920
Total	170,326	413,136	1,000,314	950,796	1,022,166	22,437,504	25,058,952	56,684,160	209,791,440

Table 38. Southern Field Division Energy Data

(in kWh)

December 2001

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	403,536	965,808	1,560,000	112,868	342,936	1,269,888	40,215
2	663,880	957,816	1,560,000	84,000	437,844	628,416	38,997
3	284,984	950,328	1,560,000	120,960	798,552	1,126,848	80,031
4	410,592	898,200	1,560,000	101,668	422,712	1,611,744	52,332
5	423,640	982,368	1,560,000	255,024	1,376,580	2,250,528	181,524
6	378,392	969,624	1,560,000	175,896	918,624	2,219,808	69,027
7	395,304	990,792	1,560,000	99,876	518,736	2,265,792	77,112
8	331,072	856,800	1,560,000	127,428	794,964	2,462,016	74,382
9	583,968	942,696	1,560,000	205,604	1,104,528	1,814,976	117,180
10	55,832	22,248	1,560,000	252,924	1,244,340	2,097,888	147,924
11	191,632	0	1,560,000	260,148	1,667,280	2,031,648	168,987
12	13,216	0	0	232,428	1,337,568	2,033,760	195,195
13	10,752	0	0	230,916	1,194,588	1,977,696	148,953
14	11,872	168,768	0	194,236	1,040,472	1,594,176	118,335
15	11,928	375,912	0	162,708	797,112	1,273,152	68,670
16	429,072	830,592	0	189,084	993,312	801,312	117,978
17	371,728	895,680	1,560,000	174,944	954,660	1,444,704	109,515
18	341,936	806,688	1,560,000	132,916	825,696	2,023,296	92,715
19	433,832	984,384	1,560,000	147,616	761,892	1,674,336	69,657
20	483,616	915,624	1,560,000	197,848	987,684	2,118,720	85,512
21	440,216	950,544	1,560,000	202,216	1,004,532	1,834,368	108,591
22	395,528	1,018,944	1,560,000	186,956	1,020,324	1,396,800	113,757
23	522,424	989,064	1,560,000	342,412	1,786,320	1,487,712	216,321
24	416,360	1,121,256	1,560,000	239,708	1,193,928	3,297,888	126,273
25	812,504	1,770,768	1,560,000	236,096	1,378,404	2,815,488	159,285
26	319,760	762,120	1,560,000	222,768	1,176,408	2,964,768	145,278
27	323,680	874,224	1,560,000	222,460	1,114,560	2,929,728	141,813
28	408,856	929,088	1,560,000	187,432	1,058,952	2,639,904	95,592
29	395,808	967,320	1,560,000	186,452	1,152,780	822,048	129,591
30	660,464	967,464	1,560,000	312,928	1,373,784	1,674,336	162,477
31	267,512	1,042,920	1,560,000	172,284	936,972	1,972,800	94,647
Total	11,193,896	24,908,040	40,560,000	5,970,804	31,717,044	58,556,544	3,547,866